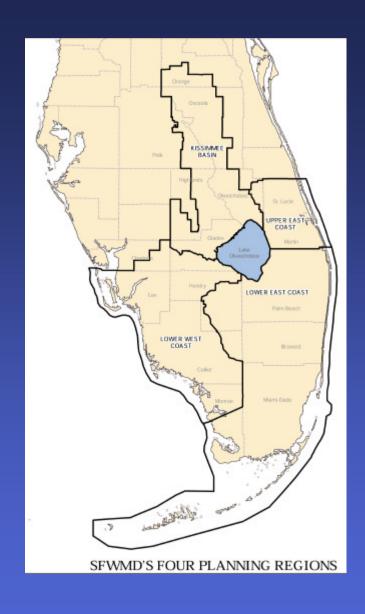
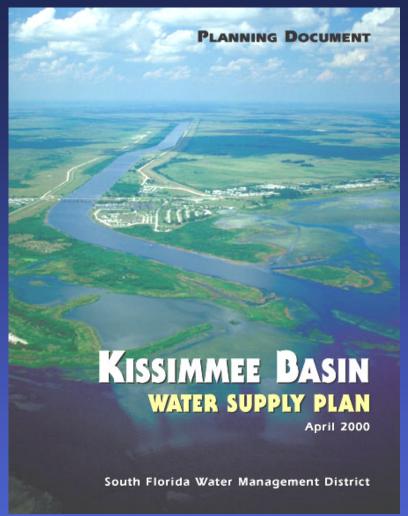


- WMP for areas north of Lake Okeechobee
- 60% increase in use (250 mgd)
 - ■1995 pop 363,000
 - **■2020** pop 687,000

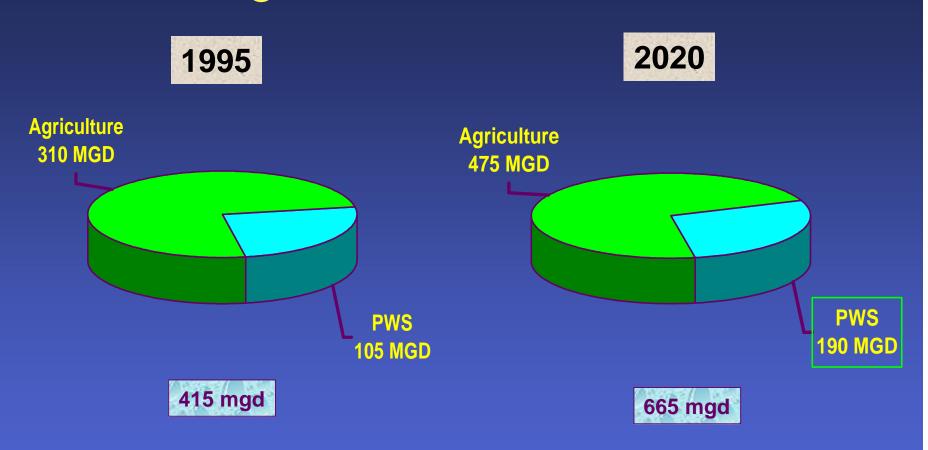






- Completed April, 2000
- Prepared through a public participation process
- 3 Volume Set
 - Planning, Support and Appendices
- Update Scheduled for April, 2005
- www.sfwmd.gov/org/pld/proj/wsp/

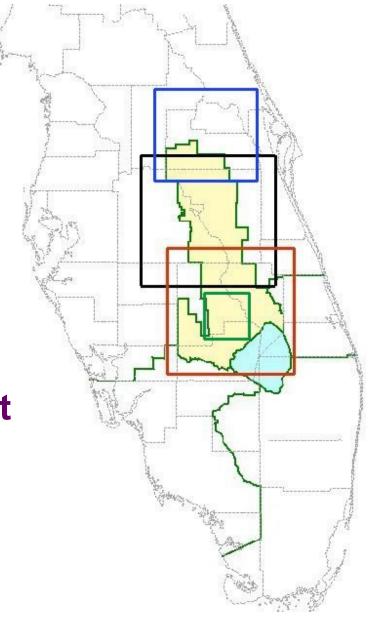
Projected Water Use



60% Increase in Overall Use

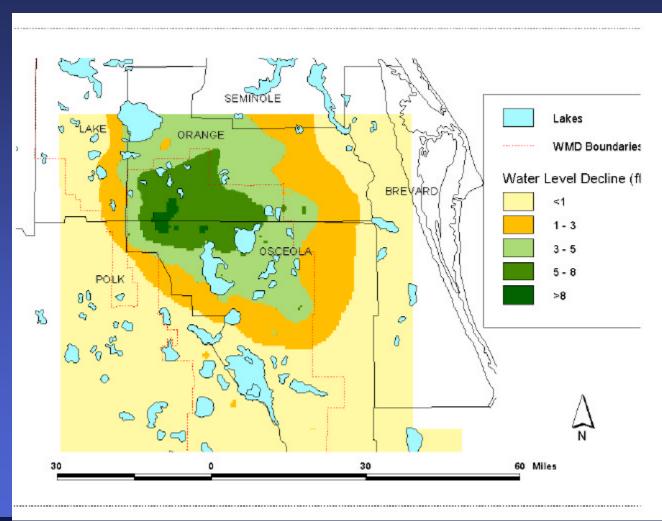
Model Study Areas

USGS Metro Model (blue)
Osceola Co. Model (black)
GOH Model (red)
Lake Istokpoga Assessment
(green)





Central Florida Potentiometric Head Change in the Floridan Aquifer



1995 to 2020(1-10)

Summary of Ground Water Analysis Results

Natural Systems

Wetlands - High risk areas identified for SW Orange

and NW Osceola Counties

Lake Levels - No projected impacts to lake levels along

Lake Wales Ridge or KB lakes

Spring Discharges - MFL's for 4 springs project to be violated

Water Quality

- Projected movement into Cocoa Wellfield in east Orange County

Sinkhole Formation

 High risk areas identified in SW Orange and NW Osceola Counties

Summary of Central Florida's Water Future

The Floridan aquifer system, historically used as a primary water source, will likely not meet all the future demands projected for central Florida. As a result, private and public water suppliers need to begin to develop alternative water supply sources within the five and ten year planning horizons in order to provide uninterrupted service to their customers.



Water Resource Options

- Limited continued use of Floridan aquifer
- Water conservation
- Reclaimed water
- Surface water including lakes & reservoirs
- Storm water and storm water recharge
- Saline/brackish water use
- Indirect Potable Reuse

* Central Florida

Recommended Actions

- Research
 - Hydrologic Investigations
 - **■**Resource Protection Criteria
 - Model Development
- Alternative Water Supply Development
 - Investigate Additional Floridan Use
 - Conservation
 - Reclaimed Water Use
 - Stormwater Reuse Planning
 - Surface Water Availability



Hydrologic Investigations

- Goal: Further define the availability of Floridan groundwater
 - ■Floridan Aquifer Exploration
 - Shallow- Floridan Connection Study
 - Lake Monitoring Network
 - Identification of wetland and sinkhole problem areas
 - Update previous ground water models

Reclaimed Water Use

- Goal: Encourage the use of reclaimed water
 - ■AWS Grant program
 - Reclaimed water master planning
 - **■Indirect Potable Reuse Pilot Study**
 - **■**Water use permitting

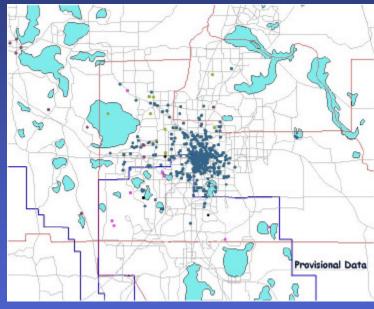
Stormwater Reuse Plan

■ Goal: Enhance aquifer recharge

using stormwater

Identification of stormwater availability and areas in need of flood relief

- Drainage well pilot study
- Identification of stormwater holding areas for treatment and recharge



Surface Water Availability

- Goal: Determine the availability of surface water for water supply.
 - **■**Shingle, Boggy and Reedy Creeks
 - Upper Chain of Lakes
 - Development of MFL's for Lakes

Water Conservation Efforts

- Public Education
- Bus Wrapping
- Mobil Irrigation Labs
- Water Shortage Restrictions
- Ordinance Development



Kissimmee Planning Document

- 1. Introduction
- 2. Water Supply Planning Process
- 3. Planning Area Description
- 4. Analysis and Issue Identification
- 5. Water Source Options and Solution Development
- **6.** Recommendations

Kissimmee Support Document

- 1. Introduction
- 2. Planning Area Description
- 3. Water Resources and System Overview
- 4. Natural Resources
- 5. Resource Regulation
- 6. Demand Estimates and Projections
- 7. Water Conservation
- 8. Water Source Option
- 9. Water Quality and Treatment
- 10. Analytical Tools and Model Assumptions